CLAIMS

1. A halogen-free fire-retarded plastic composition suitable for coating a substrate, comprising an acrylic resin and an intume scent agent, characterized in that:

- it is in the plastisol state and comprises a plasticizing medium in which the acrylic resin and the intumescent agent are dispersed;
- it exhibits, at low shear rates, Newtonian-type rheological behavior with a viscosity of less than 6000 mPa.s; and
 - it exhibits, at high shear rates, pseudoplastic-type rheological behavior.
- 2. The composition as claimed in claim 1, characterized in that the weight proportion of the plasticizing medium comprising a phthalate is at most equal to 200% with respect to the weight of acrylic resin and/or the weight proportion of the intumescent agent is at most equal to 200% with respect to the weight of acrylic resin.
 - 3. The composition as claimed in claim 1, characterized in that the plasticizing medium comprises predominantly, by weight, an organic phosphate.
- 25 4. The composition as claimed in claim 3, characterized in that the plasticizing medium comprises a phthalate.
 - 5. The composition as claimed in claim 2, characterized in that the proportion by weight of the plasticizing medium is between 100 and 200%, and preferably between 120 and 145%, by weight of resin.
 - 6. The composition as claimed in claim 2 characterized in that the proportion by weight of the intumescent agent is between 50 and 200%, and preferably between 1%0 and 200%, by weight of resin.

7. A flame-retarded composite yarn comprising a core made of a material of low combustibility, for example a halogen-free material, and a sheath made of

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resin, characterized in that it is capable of being obtained by coating said core with the flame-retarded composition as claimed in any one of claims 1 to 6.

8. The yarn as claimed in claim 7, characterized in that the material of the core is a continuous glass filament.

A composite structure comprising a substrate of examp1e combustibility, for low a halogen-free substrate, and at least øne layer of resin, characterized in that it is capable of being obtained coating the substrate with a flame-retarded composition as claimed in any one of claims 1 to 6.

10. A textile structure in which yarns as claimed in claim 7, are assembled or entangled.

A sun screen comprising a textile structure as claimed in claim 9 or 10.

12. A sign comprising a textile structure as claimed in claim 9×10 .

13. A covering for walls or ceilings, comprising a textile structure as claimed in claim 9 or 10.

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